

### ABSTRACT

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The present invention relates to a neutral phenol oxidase showing small changes depending on a substrate in optimum pH for various substrates and having high enzymatic activity at pH around neutral region, a method for producing the same, and an antibody raised against the neutral phenol oxidase. According to the present invention, dyeing of fibers, coloring of hair or the like can be achieved. In addition, according to the present invention, effects on the environment, the human body, and the like can be reduced.